Heller Ehrman White & McAuliffe LLP
Sheet 1 of 4
Title: FRAGMENTATION-BASED METHODS AND
SYSTEMS FOR SEQUENCE VARIATION DETECTION
AND DISCOVERY
Serial No.: To Be Assigned
Applicants: Van Den Boom et al.
Date of Filing: 11/26/03 Atty Docket: 24736-2073

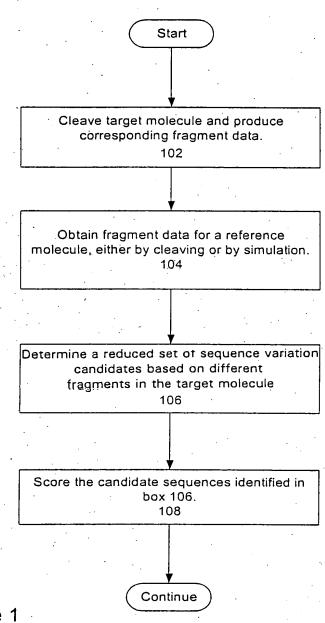


Figure 1

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Start Compute all the bounded compomers (c[i,j], b[i,j]) in Ck, and store them together with the indices i, j. 202 For every additional peak, find all compomers with mass reasonably close to the peak mass, and store them as compomer witnesses. 204 For every compomer witness c' identified from box 204, find all bounded compomers (c, b) in \tilde{C}_k such that $D(c',c,cb) \leq k$ 206 Compute all sequence variation candidates using at most k insertions, deletions and substitutions, such that the operation is repeated for every bounded compomer (c,b) with indices i,j, according to restrictions 208 Produce every sequence variation candidate computed from box 208 as the system output 210 Figure 2 Continue

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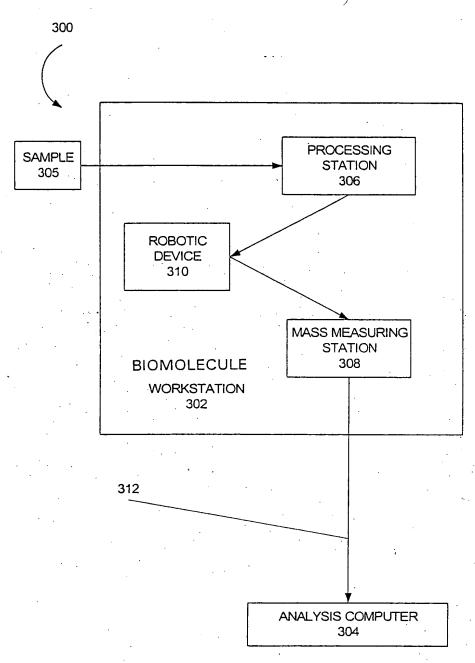


Figure 3

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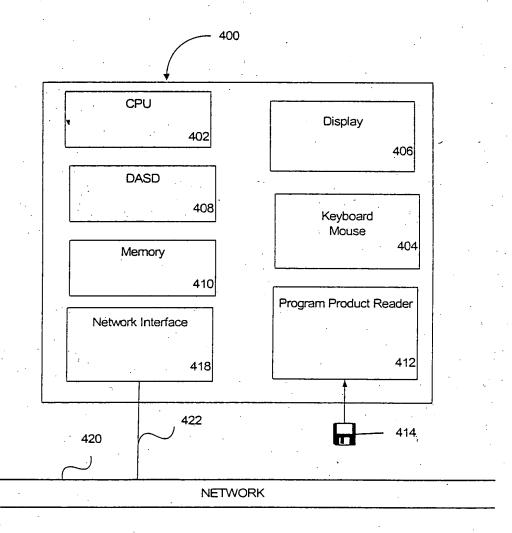


Figure 4